

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/806,232C  
Source: 1FW/6  
Date Processed by STIC: 6/30/05

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IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/806,232C

DATE: 06/30/2005

TIME: 10:17:39

Input Set : A:\1241.18 Sequence Listing.txt  
 Output Set: N:\CRF4\06302005\I806232C.raw

3 <110> APPLICANT: Seiki Motoharu  
 5 <120> TITLE OF INVENTION: DNA CODING FOR NOVEL POLYPEPTIDE  
 7 <130> FILE REFERENCE: 1241.18  
 9 <140> CURRENT APPLICATION NUMBER: 09/806,232C  
 10 <141> CURRENT FILING DATE: 2001-03-28  
 12 <150> PRIOR APPLICATION NUMBER: PCT/JP99/05349  
 13 <151> PRIOR FILING DATE: 1999-09-29  
 15 <150> PRIOR APPLICATION NUMBER: JP10-276258  
 16 <151> PRIOR FILING DATE: 1998-09-29  
 18 <150> PRIOR APPLICATION NUMBER: JP10-291505  
 19 <151> PRIOR FILING DATE: 1998-09-29  
 21 <160> NUMBER OF SEQ ID NOS: 28  
 23 <170> SOFTWARE: PatentIn Ver. 2.0  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 587  
 27 <212> TYPE: PRT  
 28 <213> ORGANISM: Mouse  
 30 <400> SEQUENCE: 1  
 31 Met Gly Arg Arg Pro Arg Gly Pro Gly Ser Pro Arg Gly Pro Gly Pro  
 32 1 5 10 15  
 34 Pro Arg Pro Gly Pro Gly Leu Pro Pro Leu Leu Leu Val Leu Ala Leu  
 35 20 25 30  
 37 Ala Ala His Gly Gly Cys Ala Ala Pro Ala Pro Arg Ala Glu Asp Leu  
 38 35 40 45  
 40 Ser Leu Gly Val Glu Trp Leu Ser Arg Phe Gly Tyr Leu Pro Pro Ala  
 41 50 55 60  
 43 Asp Pro Ala Ser Gly Gln Leu Gln Thr Gln Glu Glu Leu Ser Lys Ala  
 44 65 70 75 80  
 46 Ile Thr Ala Met Gln Gln Phe Gly Gly Leu Glu Thr Thr Gly Ile Leu  
 47 85 90 95  
 49 Asp Glu Ala Thr Leu Ala Leu Met Lys Thr Pro Arg Cys Ser Leu Pro  
 50 100 105 110  
 52 Asp Leu Pro Pro Gly Ala Gln Ser Arg Arg Lys Arg Gln Thr Pro Pro  
 53 115 120 125  
 55 Pro Thr Lys Trp Ser Lys Arg Asn Leu Ser Trp Arg Val Arg Thr Phe  
 56 130 135 140  
 58 Pro Arg Asp Ser Pro Leu Gly Arg Asp Thr Val Arg Ala Leu Met Tyr  
 59 145 150 155 160  
 61 Tyr Ala Leu Lys Val Trp Ser Asp Ile Thr Pro Leu Asn Phe His Glu  
 62 165 170 175  
 64 Val Ala Gly Asn Ala Ala Asp Ile Gln Ile Asp Phe Ser Lys Ala Asp  
 65 180 185 190  
 67 His Asn Asp Gly Tyr Pro Phe Asp Gly Pro Gly Thr Val Ala His

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68	195	200	205
70	Ala Phe Phe Pro Gly Asp His His Thr Ala Gly Asp Thr His Phe Asp		
71	210	215	220
73	Asp Asp Glu Pro Trp Thr Phe Arg Ser Ser Asp Ala His Gly Met Asp		
74	225	230	235
76	240	245	250
77	Leu Phe Ala Val Ala Val His Glu Phe Gly His Ala Ile Gly Leu Ser		
79	255	260	265
80	His Val Ala Ala Pro Ser Ser Ile Met Gln Pro Tyr Tyr Gln Gly Pro		
82	270	275	280
83	Val Gly Asp Pro Val Arg Tyr Gly Leu Pro Tyr Glu Asp Arg Val Arg		
85	285	290	295
86	Val Trp Gln Leu Tyr Gly Val Arg Glu Ser Val Ser Pro Thr Ala Gln		
88	300	305	310
89	Leu Asp Thr Pro Glu Pro Glu Pro Pro Leu Leu Pro Glu Pro Pro		
91	315	325	330
92	Asn Asn Arg Ser Ser Thr Pro Pro Gln Lys Asp Val Pro His Arg Cys		
94	335	340	345
95	Thr Ala His Phe Asp Ala Val Ala Gln Ile Arg Gly Glu Ala Phe Phe		
97	350	355	360
98	Phe Lys Gly Lys Tyr Phe Trp Arg Leu Thr Arg Asp Arg His Leu Val		
100	365	370	375
101	Ser Leu Gln Pro Ala Gln Met His Arg Phe Trp Arg Gly Leu Pro Leu		
103	380	385	390
104	His Leu Asp Ser Val Asp Ala Val Tyr Glu Arg Thr Ser Asp His Lys		
106	400	405	410
107	Ile Val Phe Phe Lys Gly Asp Arg Tyr Trp Val Phe Lys Asp Asn Asn		
109	415	420	425
110	430	435	440
112	445	450	455
113	Gly Gly Ile Asp Ala Val Phe Ser Trp Ala His Asn Asp Arg Thr Tyr		
115	460	465	470
116	475	485	490
118	480	490	495
119	Met Asp Pro Gly Tyr Pro Ala Gln Gly Pro Leu Trp Arg Gly Val Pro		
121	500	515	520
122	510	525	530
124	535	540	545
125	545	550	555
127	560	565	570
128	575	580	585
130	Leu Val Cys Gly		
133	585	590	595
134	600	605	610
136	615	620	625
137	630	635	640
139	645	650	655
140	660	665	670

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142 <210> SEQ ID NO: 2  
143 <211> LENGTH: 606  
144 <212> TYPE: PRT  
145 <213> ORGANISM: Homo sapiens  
147 <400> SEQUENCE: 2  
148 Met Arg Arg Arg Ala Ala Arg Gly Pro Gly Pro Pro Pro Pro Gly Pro  
149 1 5 10 15  
151 Gly Leu Ser Arg Leu Pro Leu Leu Pro Leu Pro Leu Leu Leu Leu  
152 20 25 30  
154 Ala Leu Gly Thr Arg Gly Gly Cys Ala Ala Pro Glu Pro Ala Arg Arg  
155 35 40 45  
157 Ala Glu Asp Leu Ser Leu Gly Val Glu Trp Leu Ser Arg Phe Gly Tyr  
158 50 55 60  
160 Leu Pro Pro Ala Asp Pro Thr Thr Gly Gln Leu Gln Thr Gln Glu Glu  
161 65 70 75 80  
163 Leu Ser Lys Ala Ile Thr Ala Met Gln Gln Phe Gly Gly Leu Glu Ala  
164 85 90 95  
166 Thr Gly Ile Leu Asp Glu Ala Thr Leu Ala Leu Met Lys Thr Pro Arg  
167 100 105 110  
169 Cys Ser Leu Pro Asp Leu Pro Val Leu Thr Gln Ala Arg Arg Arg Arg  
170 115 120 125  
172 Gln Ala Pro Ala Pro Thr Lys Trp Asn Lys Arg Asn Leu Ser Trp Arg  
173 130 135 140  
175 Val Arg Thr Phe Pro Arg Asp Ser Pro Leu Gly His Asp Thr Val Arg  
176 145 150 155 160  
178 Ala Leu Met Tyr Tyr Ala Leu Lys Val Trp Ser Asp Ile Ala Pro Leu  
179 165 170 175  
181 Asn Phe His Glu Val Ala Gly Ser Thr Ala Asp Ile Gln Ile Asp Phe  
182 180 185 190  
184 Ser Lys Ala Asp His Asn Asp Gly Tyr Pro Phe Asp Gly Pro Gly Gly  
185 195 200 205  
187 Thr Val Ala His Ala Phe Phe Pro Gly His His His Thr Ala Gly Asp  
188 210 215 220  
190 Thr His Phe Asp Asp Asp Glu Ala Trp Thr Phe Arg Ser Ser Asp Ala  
191 225 230 235 240  
193 His Gly Met Asp Leu Phe Ala Val Ala Val His Glu Phe Gly His Ala  
194 245 250 255  
196 Ile Gly Leu Ser His Val Ala Ala Ala His Ser Ile Met Arg Pro Tyr  
197 260 265 270  
199 Tyr Gln Gly Pro Val Gly Asp Pro Leu Arg Tyr Gly Leu Pro Tyr Glu  
200 275 280 285  
202 Asp Lys Val Arg Val Trp Gln Leu Tyr Gly Val Arg Glu Ser Val Ser  
203 290 295 300  
205 Pro Thr Ala Gln Pro Glu Glu Pro Pro Leu Leu Pro Glu Pro Pro Asp  
206 305 310 315 320  
208 Asn Arg Ser Ser Ala Pro Pro Arg Lys Asp Val Pro His Arg Cys Ser  
209 325 330 335  
211 Thr His Phe Asp Ala Val Ala Gln Ile Arg Gly Glu Ala Phe Phe Phe  
212 340 345 350

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214 Lys Gly Lys Tyr Phe Trp Arg Leu Thr Arg Asp Arg His Leu Val Ser  
215 355 360 365  
217 Leu Gln Pro Ala Gln Met His Arg Phe Trp Arg Gly Leu Pro Leu His  
218 370 375 380  
220 Leu Asp Ser Val Asp Ala Val Tyr Glu Arg Thr Ser Asp His Lys Ile  
221 385 390 395 400  
223 Val Phe Phe Lys Gly Asp Arg Tyr Trp Val Phe Lys Asp Asn Asn Val  
224 405 410 415  
226 Glu Glu Gly Tyr Pro Arg Pro Val Ser Asp Phe Ser Leu Pro Pro Gly  
227 420 425 430  
229 Gly Ile Asp Ala Ala Phe Ser Trp Ala His Asn Asp Arg Thr Tyr Phe  
230 435 440 445  
232 Phe Lys Asp Gln Leu Tyr Trp Arg Tyr Asp Asp His Thr Arg His Met  
233 450 455 460  
235 Asp Pro Gly Tyr Pro Ala Gln Ser Pro Leu Trp Arg Gly Val Pro Ser  
236 465 470 475 480  
238 Thr Leu Asp Asp Ala Met Arg Trp Ser Asp Gly Ala Ser Tyr Phe Phe  
239 485 490 495  
241 Arg Gly Gln Glu Tyr Trp Lys Val Leu Asp Gly Glu Leu Glu Val Ala  
242 500 505 510  
244 Pro Gly Tyr Pro Gln Ser Thr Ala Arg Asp Trp Leu Val Cys Gly Asp  
245 515 520 525  
247 Ser Gln Ala Asp Gly Ser Val Ala Ala Gly Val Asp Ala Ala Glu Gly  
248 530 535 540  
250 Pro Arg Ala Pro Pro Gly Gln His Asp Gln Ser Arg Ser Glu Asp Gly  
251 545 550 555 560  
253 Tyr Glu Val Cys Ser Cys Thr Ser Gly Ala Ser Ser Pro Pro Gly Ala  
254 565 570 575  
256 Pro Gly Pro Leu Val Ala Ala Thr Met Leu Leu Leu Pro Pro Leu  
257 580 585 590  
259 Ser Pro Gly Ala Leu Trp Thr Ala Ala Gln Ala Leu Thr Leu  
260 595 600 605  
262 <210> SEQ ID NO: 3  
263 <211> LENGTH: 3517  
264 <212> TYPE: DNA  
265 <213> ORGANISM: Mouse  
267 <220> FEATURE:  
268 <221> NAME/KEY: CDS  
269 <222> LOCATION: (86)..(1846)  
271 <400> SEQUENCE: 3  
272 ggcacgaggg cgccggagccg agcgaggcgc ggagctggct gctggcggtt gcggggaccc 60  
274 tcgccaccccg acctgggaga gcggg atg gga cgc cgc ccg cgg gga cct ggg 112  
275 Met Gly Arg Arg Pro Arg Gly Pro Gly  
276 1 5  
278 tcc ccc cgg gga cct ggc cct cca cgc ccc ggg ccg ggg ctg cca cca 160  
279 Ser Pro Arg Gly Pro Gly Pro Pro Arg Pro Gly Pro Gly Leu Pro Pro  
280 10 15 20 25  
282 ctg ctg ctt gta ctg gcg ctg gcg gcc cat ggg ggc tgc gca gcg ccc 208  
283 Leu Leu Leu Val Leu Ala Leu Ala His Gly Gly Cys Ala Ala Pro

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284	30	35	40	
286	gcg ccc cgc gcg gag gac ctc agc ctc ggg gtg gag tgg cta agc agg			256
287	Ala Pro Arg Ala Glu Asp Leu Ser Leu Gly Val Glu Trp Leu Ser Arg			
288	45	50	55	
290	ttt ggc tac ctg ccc cct gca gat ccg gca tca ggg cag cta cag acc			304
291	Phe Gly Tyr Leu Pro Pro Ala Asp Pro Ala Ser Gly Gln Leu Gln Thr			
292	60	65	70	
294	cag gag gaa ctg tcc aaa gcg att act gcc atg cag cag ttt ggt ggt			352
295	Gln Glu Leu Ser Lys Ala Ile Thr Ala Met Gln Gln Phe Gly Gly			
296	75	80	85	
298	ctg gag acc act ggc atc cta gat gag gcc act ctg gcc ctg atg aaa			400
299	Leu Glu Thr Thr Gly Ile Leu Asp Glu Ala Thr Leu Ala Leu Met Lys			
300	90	95	100	105
302	acc cct cga tgc tcc ctt ccg gac ctg ccc cct ggg gcc caa tcg aga			448
303	Thr Pro Arg Cys Ser Leu Pro Asp Leu Pro Pro Gly Ala Gln Ser Arg			
304	110	115	120	
306	agg aag cgg cag act cca ccc cca acc aaa tgg agc aag agg aac ctt			496
307	Arg Lys Arg Gln Thr Pro Pro Pro Thr Lys Trp Ser Lys Arg Asn Leu			
308	125	130	135	
310	tct tgg agg gtc cgg aca ttc cca cgg gac tca ccc ctg ggc cgg gat			544
311	Ser Trp Arg Val Arg Thr Phe Pro Arg Asp Ser Pro Leu Gly Arg Asp			
312	140	145	150	
314	act gtg cgt gca ctc atg tac tac gcc ctc aaa gtc tgg agt gac atc			592
315	Thr Val Arg Ala Leu Met Tyr Tyr Ala Leu Lys Val Trp Ser Asp Ile			
316	155	160	165	
318	aca ccc ttg aac ttc cac gag gta gcg ggc aac gcg gcg gac atc cag			640
319	Thr Pro Leu Asn Phe His Glu Val Ala Gly Asn Ala Ala Asp Ile Gln			
320	170	175	180	185
322	atc gac ttc tcc aag gcc gac cac aat gac ggc tac ccc ttc gat ggc			688
323	Ile Asp Phe Ser Lys Ala Asp His Asn Asp Gly Tyr Pro Phe Asp Gly			
324	190	195	200	
326	cct ggt ggc acg gtg gcc cac gca ttc ttc cct ggt gac cac cac acg			736
327	Pro Gly Gly Thr Val Ala His Ala Phe Phe Pro Gly Asp His His Thr			
328	205	210	215	
330	gca ggg gac acc cac ttt gat gac gat gag cca tgg acc ttc cgt tcc			784
331	Ala Gly Asp Thr His Phe Asp Asp Asp Glu Pro Trp Thr Phe Arg Ser			
332	220	225	230	
334	tca gat gcc cac ggg atg gac ctg ttt gca gtg gcc gtc cat gag ttt			832
335	Ser Asp Ala His Gly Met Asp Leu Phe Ala Val Ala Val His Glu Phe			
336	235	240	245	
338	ggg cat gcc att ggt ctg agc cat gtt gcc gca agc tcc atc atg			880
339	Gly His Ala Ile Gly Leu Ser His Val Ala Ala Pro Ser Ser Ile Met			
340	250	255	260	265
342	caa ccg tac tac cag ggc ccc gtg ggt gac ccc gta cgc tat gga ctt			928
343	Gln Pro Tyr Tyr Gln Gly Pro Val Gly Asp Pro Val Arg Tyr Gly Leu			
344	270	275	280	
346	ccc tat gag gac agg gtg cgt gtc tgg cag ttg tac ggt gtg cgg gaa			976
347	Pro Tyr Glu Asp Arg Val Arg Val Trp Gln Leu Tyr Gly Val Arg Glu			
348	285	290	295	

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/806,232C

DATE: 06/30/2005

TIME: 10:17:40

Input Set : A:\1241.18 Sequence Listing.txt  
Output Set: N:\CRF4\06302005\I806232C.raw

L:1368 M:112 C: (48) String data converted to lower case,